

U.S. DEPT. OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY
DIGITAL OZONESONDE CHECKLIST

FLT # H4607

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 1/23/10 PUMP CURRENT: 97.08 30 MINUTES HI O₃ (v)
INITIALS: B PUMP PRESSURE: 210 5 MINUTE NO O₃ (v)
PUMP NUMBER: 228691 PUMP VACUUM: 22

ADD 3.0 CC CATHODE SOLUTION: (v) Short the cell leads: (v)
WAIT 2 MINUTES: (v) Add about 2.5 CC more Cathode Solution (2Z) (v)
ADD 1.5 CC ANODE SOLUTION: (v) Place Instrument inside plastic bag: (v)
RUN 20 MINUTES ON NO O₃ (v) Store inside Styrofoam flight box: (v)
Record the current after the 20 MINUTES ON NO O₃: 0.435 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 2/7/10
INITIALS: WC
Cathode solution date written on bottle: 4/17/09
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1=0.030 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.46 sec
FLOWRATE #2: 28.37
FLOWRATE #3: 28.51
FLOWRATE #4: 28.37
FLOWRATE #5: 28.49
AVERAGE T100: 28.5

DRY T100

#1: 27.77
#2: 27.77
#3: 27.81
DRY AVG: 27.78

WET T100

#1: 28.46
#2: 28.39
#3: 28.16
WET AVG: 28.33

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.66 sec.

*T100 Flowrate correction. 1.97%

RECORD: ROOM TEMP (C) 18 ROOM REL. HUMID. (%) 24

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4607
GMT DATE: 2/6/10
GMT LAUNCH TIME: _____

LOCAL DATE: ~~2/6/10~~ 2/6/10
LOCAL TIME: 1:01

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 309016053
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: Cloudy, high winds

~ BURST PRESSURE (mb): 8.346
A₁(km) = 31.91

REMARKS: _____

weighoff = _____ grams

*T100 flow corr (%) = [(WET/DRY)-1.0] X 100